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UHMWPE

PE1000 natural

Standard Colour: **White opaque**

Target industries

- Construction industry
- Food engineering
- Mining industry

Main Features

- Ultra-high molecular weight
- Very good abrasion resistance
- Excellent impact strength
- Very good slide and wear properties

| Properties | Unit | Din Standard | Value |
|--------------------------------------|----------------------------------|----------------------|-------------------|
| Modules of elasticity (tensile test) | MPa | DIN EN ISO 527-1 | 700 |
| Tensile strength at yeild | MPa | DIN EN ISO 527-1 | 19 |
| Elongation at yield | % | DIN EN ISO 527-1 | 11 |
| Impact strength (charpy) | KJ/m ² | DIN EN ISO 179-1 eU | not broken |
| Ball indentation hardness | MPa | ISO 2039-1 | 30 |
| Shore hardness Shore D | | DIN EN ISO 868 | 60 |
| Thermal properties | | | |
| Service temperature | °C | | -260 + 80 |
| Thermal expansion (CLTE) | 10 ⁻⁵ K ⁻¹ | DIN EN ISO 11359-1;2 | 18 |
| Electrical properties | | | |
| Surface resistivity | Ω | DIN EN ISO1133 | >10 ¹⁴ |
| Dielectric strength | KV/mm | ISO 60243-1 | 44 |
| Other properties | | | |
| Water absorption | % | DIN EN ISO 62 | <0.01 |
| Flammability | | Din4102 | B2 |